

Guess the birthday of author or the co-author

Your task is to guess the author or the co-author birthday :v. Or else you can look for the roots of the polynomial below. There will be 2 valid positive integers from the polynomial that can be used as the date and month, and the first integer becomes the date of birth and the second integer becomes the month of birth.

Equations: $f(x) = 999999999999999989x^{109} - 987654251999999989135803228x^{108} - 68148146802999999250370385167x^{107} - 1329382716839999985376790114760x^{106} + 764444212358999991591113664051x^{105} + 229229628379091997478474087829988x^{104} + 1237928896835302986382782134811667x^{103} - 7833027097191839913836701930889760x^{102} - 62617185097307899311210963929613100x^{101} - 87565432099859999036780246901540000x^{100}$

Hint: Try to find the factors first :)

Input

There is no input.

Output

Output the answer in a line in a form of DD-MM. There must be no trailing spaces at the end of printed lines, neither empty lines. The example below is an example for the correct output form of a wrong solution.

Example

Output:

01-01